Listing of Claims

Claims 1-16 (canceled)

Claim 17 (new) A unitary, multiple-interface radio terminal operating simultaneously with different transmission protocols over a common frequency range on parallel channels, said radio terminal comprising:

a CPU core for receiving connection requests for packets to be transmitted in said common frequency range,

a first radio interface for supporting radio transmission within said common frequency range over an associated first channel by a first transmission protocol,

a second radio interface for supporting radio transmission within said common frequency range over an associated second channel by a second transmission protocol distinct from said first transmission protocol,

a selector coupled to said CPU core for routing said packets to be transmitted to one of said first and second radio interfaces, and

an interface manager connected to said CPU core and said selector and responsive to a connection request for determining the routing of said packets by said selector to said first or said second channel for transmission within said common frequency range.

Claim 18 (new) The radio terminal of claim 17 wherein said interface manager includes

diagnostic circuits connected to each of said channels for determining the conditions of said channels during the parallel transmissions and collecting samples of criteria for said conditions, said conditions including at least one of received signal strength, transmission delays, and usage levels of access points respectively coupled to said channels,

buffers for storing samples representative of said conditions of said channels, said collecting and storing of said samples being for separately determined changeable time intervals,

comparators connected to said buffers for comparing said stored samples with a reference metric, and

a mode determination circuit responsive to said comparators and connected to said CPU core and said selector.

Claim 19 (new) The radio terminal of claim 18 wherein said first transmission protocol is the Bluetooth protocol and said second transmission protocol is the 802.11 protocol.

Claim 20 (new) The radio terminal of claim 18 wherein said mode determination circuit causes said selector to select whether transmission will be by the first or the second transmission protocol dependent on the relative outputs of said comparators.